

CLAIMS

What is claimed is:

- 1 1. A method of providing secure content-based user experience
2 enhancement in a player device for rendering digital content comprising:
3 accepting encrypted digital content;
4 decrypting the encrypted digital content into decrypted digital content;
5 downsampling the decrypted digital content into downsampled digital
6 content; and
7 processing the downsampled digital content by an enhancement module
8 to provide user experience enhancement.
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1 2. The method of claim 1, further comprising decompressing the
2 decrypted digital content prior to downsampling.
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1 3. The method of claim 1, further comprising rendering the decrypted
2 digital content for perception by a user.
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1 4. The method of claim 1, further comprising protecting the decrypting
2 and downsampling actions by using tamper resistance techniques to deter
3 unauthorized access to the decrypted digital content.
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1 5. The method of claim 1, wherein the processing comprises displaying
2 data to enhance the user experience in perceiving the digital content based at
3 least in part on the downsampled digital content.
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1 6. The method of claim 1, wherein the encrypted digital content
2 comprises high fidelity digital content and the downsampled digital content
3 comprises content at a fidelity lower than the high fidelity digital content.
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1 7. The method of claim 1, wherein the encrypted digital content
2 comprises digital audio data and the processing comprises generating a display
3 of information for the user to enhance the user's experience in using the player
4 device, based at least in part on downsampled digital audio data.
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1 8. An article comprising: a storage medium having machine readable
2 instructions stored thereon, the instructions, when executed by a processor,
3 provide for secure content-based user experience enhancement in a player
4 device for rendering digital content by accepting encrypted digital content,
5 decrypting the encrypted digital content into decrypted digital content,
6 downsampling the decrypted digital content into downsampled digital content,
7 and processing the downsampled digital content by an enhancement module to
8 provide user experience enhancement.
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1 9. The article of claim 8, further comprising instructions for
2 decompressing the decrypted digital content prior to downsampling.
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1 10. The article of claim 8, further comprising instructions for rendering the
2 decrypted digital content for perception by a user.
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1 11. The article of claim 8, further comprising instructions for protecting the
2 decrypting and downsampling actions by using tamper resistance techniques to
3 deter unauthorized access to the decrypted digital content.
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1 12. The article of claim 8, wherein the processing instructions comprise
2 instructions for displaying data to enhance the user experience in perceiving the
3 digital content based at least in part on the downsampled digital content.
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1 13. The article of claim 8, wherein the encrypted digital content comprises
2 high fidelity digital content and the downsampled digital content comprises
3 content at a fidelity lower than the high fidelity digital content.

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1 14. The article of claim 8, wherein the encrypted digital content comprises
2 digital audio data and the processing instructions comprise instructions for
3 generating a display of information for the user to enhance the user's experience
4 in using the player device, based at least in part on downsampled digital audio
5 data.

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1 15. A processing system providing secure content-based user
2 experience enhancement in a player device for rendering digital content,
3 comprising:

4 a decryption agent to accept encrypted digital content, to decrypt the
5 encrypted digital content into decrypted digital content, and to downsample the
6 decrypted digital content into downsampled digital content; and

7 an enhancement module to receive the downsampled digital content and
8 to process the downsampled digital content to provide user experience
9 enhancement.

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1 16. The system of claim 15, further comprising a decompressor module
2 to decompress the decrypted digital content prior to downsampling.

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1 17. The system of claim 15, further comprising a renderer module to
2 render the decrypted digital content for perception by a user.

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1 18. The system of claim 15, wherein the decryption agent is tamper
2 resistant software to protect the decrypted digital content from unauthorized
3 access.

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1 19. The system of claim 15, wherein the enhancement module displays
2 data to enhance the user experience in perceiving the digital content based at
3 least in part on the downsampled digital content.

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1 20. The system of claim 15, wherein the encrypted digital content
2 comprises high fidelity digital content and the downsampled digital content
3 comprises content at a fidelity lower than the high fidelity digital content.
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1 21. The system of claim 15, wherein the encrypted digital content
2 comprises digital audio data and the enhancement module generates a display
3 of information for the user to enhance the user's experience in using the player
4 device, based at least in part on downsampled digital audio data.
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1 22. A method of providing secure content-based user experience
2 enhancement in a player device for rendering digital content comprising:
3 accepting encrypted high fidelity digital content and low fidelity
4 downsampled content corresponding to the encrypted high fidelity content;
5 decrypting the encrypted high fidelity digital content into decrypted digital
6 content;
7 rendering the decrypted digital content for perception by a user; and
8 processing the low fidelity downsampled digital content by an
9 enhancement module to provide user experience enhancement.
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1 23. The method of claim 22, wherein the processing comprises displaying
2 data to enhance the user experience in perceiving the rendered high fidelity
3 digital content based at least in part on the low fidelity downsampled digital
4 content.
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1 24. The method of claim 22, further comprising protecting the decrypting
2 and rendering actions by using tamper resistance techniques to deter
3 unauthorized access to the decrypted digital content.
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1 25. The method of claim 22, wherein the encrypted high fidelity digital
2 content comprises digital audio data and the processing comprises generating a
3 display of information for the user to enhance the user's experience in using the

4 player device, based at least in part on the low fidelity downsampled digital
5 content.

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1 26. An article comprising: a storage medium having machine readable
2 instructions stored thereon, the instructions, when executed by a processor,
3 provide for secure content-based user experience enhancement in a player
4 device for rendering digital content by accepting encrypted high fidelity digital
5 content and low fidelity downsampled content corresponding to the encrypted
6 high fidelity content, decrypting the encrypted high fidelity digital content into
7 decrypted digital content, rendering the decrypted digital content for perception
8 by a user, and processing the low fidelity downsampled digital content by an
9 enhancement module to provide user experience enhancement.

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1 27. The article of claim 26, wherein the processing instructions comprise
2 instructions for displaying data to enhance the user experience in perceiving the
3 rendered high fidelity digital content based at least in part on the low fidelity
4 downsampled digital content.

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1 28. The article of claim 26, further comprising instructions for protecting
2 the decrypting and rendering actions by using tamper resistance techniques to
3 deter unauthorized access to the decrypted digital content.

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1 29. The article of claim 26, wherein the encrypted high fidelity digital
2 content comprises digital audio data and the processing instructions comprise
3 instructions for generating a display of information for the user to enhance the
4 user's experience in using the player device, based at least in part on the low
5 fidelity downsampled digital content.

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